



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017



Job No.: CTCE/BBMP/KRIDL/W.No.15/CSR-198c/CEMENT/2020-21

Date: 28.08.2020

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of Work	:	Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
* Sample ID	:	Cement
Sample Received on	:	26.08.2020
Period of Testing	:	26.08.2020 to 28.08.2020
Report Issue Date	:	28.08.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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Pooja K.L.
Authorised Signatory



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Job No.: CTCE/BBMP/KRIDL/W.No.15/CSR-198c/SAND-Gradation/2020-21

28.08.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of Work	: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	: 26.08.2020
Date of Testing	: 28.08.2020
Report Issue Date	: 28.08.2020

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	80.00	60-95	75-100	85-100	95-100
1.18	65.70	30-70	55-90	75-100	90-100
600 Micron	44.10	15-34	35-59	60-79	80-100
300 Micron	18.20	5-20	8-30	12-40	15-50
150 Micron	5.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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ಬಿ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾ.ನಗರಂಟಿ, ಬಿ.ಬಿ.ಎಂ.ಸಿ.
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Job No.: CTCE/BBMP/KRIDL/W.No.15/CSR-198c/AGG/GR/2020-21

28.08.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of Work	: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
* Sample ID	: Coarse Aggregates (20mm)
Test Method As Per	: IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	: 26.08.2020
Date of Testing	: 28.08.2020
Report Issue Date	: 28.08.2020

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	97.46	95-100	85-100
10	41.14	25-55	0-20
4.75	5.30	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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28.08.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of Work	: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
*Reference	: BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
*Sample ID	: Sand For Pointing
Test Method As Per	: IS - 1542 : 1992 (RA-2019)
Sample Received on	: 26.08.2020
Date of Testing	: 28.08.2020
Report Issue Date	: 28.08.2020

Total Wt. of Aggregates in gms 1000

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	97.50	95-100
2.36	96.20	95-100
1.18	93.00	90-100
600 Micron	86.10	80-100
300 Micron	43.50	20-65
150 Micron	9.40	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/KRIDL/W.No.15/Steel/2020-21

28.08.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.Si.No79 and 104, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
* Samples ID	: 10 mm Bar
Test Method as per	: IS - 1786 : 2008 (RA-2018)
Date of Testing	: 28.08.2020
Report Issue Date	: 28.08.2020

SI No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	519	566	13.15	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.15/Steel/2020-21

28.08.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.Si.No79 and 104, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
* Samples ID	: 12 mm Bar
Test Method as per	: IS - 1786 : 2008 (RA-2018)
Date of Testing	: 28.08.2020
Report Issue Date	: 28.08.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	525	572	13.3	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.15/Steel/2020-21

28.08.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.Si.No79 and 104, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
* Samples ID	: 16 mm Bar
Test Method as per	: IS - 1786 : 2008 (RA-2018)
Date of Testing	: 28.08.2020
Report Issue Date	: 28.08.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	529	577	13.45	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.15/CSR-198c/Cube/2020-21

01.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020
* Sample ID	: RCC Drain Raft Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₅
Compressive Strength as on	: 28 th day
Sample Received on	: 01.10.2020
Report Issue Date	: 01.10.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.09.2020	01.10.2020	8.165	605.4	26.91
2	03.09.2020	01.10.2020	8.201	616.8	27.41
3	03.09.2020	01.10.2020	8.268	632.5	28.11

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ಜಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
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